AMENDMENTS TO THE CLAIMS

Applicants submit below a complete listing of the current claims, including marked-up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. This listing of claims will replace all prior versions, and listings, of claims in the application.

1.   (Previously Presented) A system for preparing a lighting sequence, comprising:

a display interface adapted to display first information representative of a plurality of lighting effects; and

a processor coupled to the display interface and supporting a sequence authoring interface adapted to permit a user to select at least one lighting effect and at least one lighting unit to execute the at least one selected lighting effect, based on the displayed first information,

wherein the display interface is adapted to display a grid, wherein the at least one lighting unit is represented at a first position along a first axis of the grid, wherein at least one continuous time interval is represented along a second axis of the grid, and wherein a representation of the at least one selected lighting effect during the at least one continuous time interval is displayed on the grid adjacent to the first position and parallel to the second axis.

2.   (Previously Presented) The system of claim 1, wherein:

the sequence authoring interface is adapted to receive second information representative of an arrangement of a plurality of lighting units, and

the display interface is adapted to visually display a first representation of the arrangement of the plurality of lighting units based on the received second information.

3.   (Previously Presented) The system of claim 2, wherein the display interface is adapted to display a second representation of the at least one selected lighting effect, based on the first representation of the arrangement of the plurality of lighting units, upon execution of the lighting sequence.

4.   (Canceled)

5.   (Previously Presented) The system of claim 1, wherein the at least one lighting
unit includes at least one LED lighting unit capable of emitting light of any of a range of
different colors, and wherein the sequence authoring interface is adapted to permit the user to
select at least one color of the light emitted by the at least one LED lighting unit.

6.   (Canceled)

7.   (Previously Presented) The system of claim 1, wherein the display interface is
adapted to visually represent the at least one selected lighting effect on a region of the grid
defined by the at least one lighting unit.

8.   (Previously Presented) The system of claim 1, wherein the sequence authoring
interface is adapted to store user selections on at least one storage medium.

9.   (Previously Presented) The system of claim 1, wherein the sequence authoring
interface is adapted to permit the user to select at least one color for the at least one selected
lighting effect.

10.   (Previously Presented) The system of claim 1, wherein the sequence authoring
interface is adapted to permit the user to select a starting color and an ending color for the at least
one selected lighting effect.

11.   (Previously Presented) The system of claim 1, wherein the sequence authoring
interface is adapted to permit the user to select a transition effect for a transition between a first
lighting effect and a second lighting effect.

12.   (Previously Presented) The system of claim 1, wherein the sequence authoring
interface is adapted to permit the user to specify a priority for a first lighting effect which shares
a temporal overlap with a second lighting effect.

13.   (Previously Presented) The system of claim 1, wherein the sequence authoring interface is adapted to permit the user to specify a brightness for the at least one selected lighting effect.

14.   (Previously Presented) The system of claim 1, wherein the sequence authoring interface is adapted to permit the user to provide instructions to execute the at least one selected lighting effect based upon at least one external stimulus.

15.   (Previously Presented) The system of claim 1, wherein the sequence authoring interface is adapted to permit the user to specify a motion of the at least one selected lighting unit.

16.   (Previously Presented) The system of claim 1, wherein the sequence authoring interface is adapted to permit the user to design at least one user-composed lighting effect, and wherein the display interface is adapted to display information representative of the at least one user-composed lighting effect.

17.   (Previously Presented) A computer-implemented method for preparing a lighting sequence capable of being executed by a controller, comprising acts of:
    displaying first information representative of a plurality of lighting effects;
    selecting at least one lighting effect for the lighting sequence, based on the displayed first information;
    selecting at least one lighting unit to execute the at least one selected lighting effect; and
    displaying a grid, wherein the at least one lighting unit is represented at a first position along a first axis of the grid, wherein at least one continuous time interval is represented along a second axis of the grid, and wherein a representation of the at least one selected lighting effect during the at least one continuous time interval is displayed on the grid adjacent to the first position and parallel to the second axis.

18.   (Previously Presented) The method of claim 17, further comprising acts of:

receiving second information representative of an arrangement of a plurality of lighting

units, and

displaying a first representation of the arrangement of the plurality of lighting units based

on the received second information.

19.   (Previously Presented) The method of claim 18, further comprising an act of

visually representing the at least one selected lighting effect, based on the first representation of

the arrangement of the plurality of lighting units, upon execution of the lighting sequence.

20.   (Previously Presented) The method of claim 17, further comprising an act of:

selecting a second lighting unit; and

selecting one of the at least one selected lighting effect and another lighting effect for

execution by the second lighting unit.

21.   (Canceled)

22.   (Previously Presented) The method of claim 17, further comprising an act of

visually representing the at least one selected lighting effect on a region of the grid defined by

the at least one lighting unit.

23.   (Previously Presented) The method of claim 22, further comprising an act of

storing user selections on at least one storage medium.

24.   (Previously Presented) The method of claim 17, further comprising an act of

selecting at least one color for the at least one selected lighting effect.

25.   (Previously Presented) The method of claim 17, wherein the at least one selected

lighting effect includes a first lighting effect associated with the at least one lighting unit, and

wherein the method further comprises acts of:

selecting a second lighting effect for the lighting sequence, based on the displayed first

information.

26.   (Previously Presented) The method of claim 25, further comprising an act of selecting a transition effect between the first lighting effect and the second lighting effect.

27.   (Previously Presented) The method of claim 25, further comprising an act of determining a priority for multiple selected lighting effects.

28.   (Previously Presented) The method of claim 17, further comprising an act of specifying a brightness for the at least one selected lighting effect.

29.   (Previously Presented) The method of claim 17, wherein the act of selecting at least one lighting unit to execute the at least one selected lighting effect includes an act of selecting a plurality of lighting units to execute the at least one selected lighting effect.

30.   (Previously Presented) The method of claim 17, wherein the act of selecting at least one lighting unit to execute the at least one selected lighting effect includes an act of selecting at least one LED lighting unit capable of emitting light of any of a range of colors.

31.   (Previously Presented) The method of claim 17, further comprising an act of providing instructions to execute the at least one selected lighting effect based upon at least one external stimulus.

32.   (Canceled)

33.   (Previously Presented) The method of claim 17, further comprising an act of specifying a motion of the at least one selected lighting unit.

34 - 77.   (Canceled)

78.   (Previously Presented) The system of claim 1, wherein the sequence authoring interface is adapted to permit the user to select a start time for the at least one selected lighting effect and a stop time for the at least one selected lighting effect.

79.   (Previously Presented) The system of claim 1, further comprising a controller coupled to the processor and adapted to execute the lighting sequence so as to control the at least one lighting unit.

80.   (Previously Presented) The system of claim 79, wherein the controller includes at least one storage medium to store the lighting sequence in a data format that represents a data stream capable of directly controlling the at least one lighting unit.

81.   (Previously Presented) The system of claim 79, in combination with the at least one lighting unit, wherein the at least one lighting unit is coupled to the controller.

82.   (Previously Presented) The combination of claim 81, wherein the at least one lighting unit includes at least one LED lighting unit capable of emitting light of any of a range of different colors.

83.   (Previously Presented) A system for preparing and executing at least one lighting sequence, comprising:

a display interface adapted to display information representative of a plurality of lighting effects;

a processor coupled to the display interface and supporting a sequence authoring interface adapted to permit a user to select at least one lighting effect and at least one lighting unit to execute the at least one selected lighting effect, based on the displayed information; and

a controller coupled to the processor and adapted to execute the lighting sequence so as to control the at least one lighting unit,

wherein the display interface is adapted to display a grid, wherein the at least one lighting unit is represented at a first position along a first axis of the grid, wherein at least one continuous

time interval is represented along a second axis of the grid, and wherein a representation of the at least one selected lighting effect during the at least one continuous time interval is displayed on
the grid adjacent to the first position and parallel to the second axis.

84.   (Previously Presented) The system of claim 83, wherein the controller is disposed within the processor.

85.   (Previously Presented) The system of claim 83, wherein the controller is a separate unit from the processor.

86.   (Previously Presented) The system of claim 83, in combination with the at least one lighting unit.

87.   (Previously Presented) The method of claim 17, further comprising acts of: selecting a start time for the at least one selected lighting effect; and selecting a stop time for the at least one selected lighting effect.

88.   (Previously Presented) The method of claim 17, further comprising an act of executing the lighting sequence so as to control the at least one lighting unit.

89.   (Previously Presented) The method of claim 17, further comprising an act of storing the lighting sequence in a data format that represents a data stream capable of directly controlling the at least one lighting unit.

90.   (Previously Presented) At least one computer readable medium encoded with at least one program that, when executed, performs the method of claim 17.

91.   (Previously Presented) At least one computer readable medium encoded with at least one program that, when executed, performs the method of claim 20.

92.   (Previously Presented) A method for preparing and executing at least one lighting sequence, comprising acts of:

displaying information representative of a plurality of lighting effects;

selecting at least one lighting effect for the at least one lighting sequence, based on the displayed information;

selecting at least one lighting unit to execute the at least one selected lighting effect; and executing the at least one lighting sequence so as to control the at least one lighting unit; and

displaying a grid, wherein the at least one lighting unit is represented at a first position along a first axis of the grid, wherein at least one continuous time interval is represented along a second axis of the grid, and wherein a representation of the at least one selected lighting effect during the at least one continuous time interval is displayed on the grid adjacent to the first position and parallel to the second axis.

93 - 106.   (Canceled)

107.   (Previously Presented) The system of claim 14, wherein the sequence authoring interface is adapted to alter the at least one selected lighting effect based upon at least one external stimulus.

108.   (Previously Presented) The method of claim 31, further comprising an act of altering the at least one selected lighting effect based upon at least one external stimulus.

109 - 128.   (Canceled)